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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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Dan Kikinis

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EXAMINER

SHANG, ANNAN Q

ART UNIT

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2623

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PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/071,091	<b>Applicant(s)</b> KIKINIS, DAN	
	<b>Examiner</b> ANNAN Q. SHANG	<b>Art Unit</b> 2623	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 12 May 2008.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-14, 29-45 and 57-70 is/are pending in the application.
- 4a) Of the above claim(s) 57-66 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-14, 29-45 and 67-70 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## DETAILED ACTION

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 05/12/08 has been entered.

### ***Response to Arguments***

2. Applicant's arguments with respect to the amended claims 1-14, 29-42 and 67-70 have been considered but are moot in view of the new ground(s) of rejection.

With respect to the rejection of the last office action, Applicant amends the claims and further argues that the prior arts of record, **Arsenault et al (6,728,966)** and **Emma et al (5,155,831)**, do not teach the amended claim limitations (see page 11 of 14+ of Applicant's Remarks).

In response, Examiner disagrees. Examiner notes applicant's arguments, however, with respect to the 102(e) rejection, Arsenault discloses an IRD-36 which receives and stores EPG data in its entirety (col.6, line 55-col.7, line 46) and upon storing the received EPG data in its entirety, partitions the storage to a plurality of discrete storage areas and categorizes a group of labels (a-f) and stores these labels accordingly in the discrete storage areas (figs.3+ and col.8, line 40-col.9, line 40).

Arsenault further discloses responsive to the received programming information being stored in its entirety, continuously scanning the data storage area (RAM), in a cyclical manner, to identify and remove data entries meeting a first predetermined criterion (col.4, line 47-col.5, line 6, lines 57-col.6, line 31, line 55+ and col.7, lines 15+)

With respect to the 103(a) rejection, Arsenault is silent as to where the discrete storage area is reference by an empty identifier to indicate that the discrete storage area is available for storing new information. However, this deficiency is disclose in Emma reference figures 1-3, which discloses data processing system with fast queue store interposed between store-through caches and main memory, which makes room for new entries by reference an empty identifier to oldest or least recently data to be removed (see abstract, col.3, line 60-col.4, line 17, col.5, line 23-col.6, line 31 and col.7, lines 18-38). Hence applicant's amendments do not overcome the prior arts of record as discussed below. The amended claims necessitated the new ground(s) of rejection.

**This office action is non-final.**

### ***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the

Art Unit: 2623

applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-8, 12-14, 29-36, 40-42, 67 and 68 are rejected under 35

U.S.C. 102(e) as being anticipated by **Arsenault et al (6,728,966)**.

As to claims 1-2, note the **Arsenault** reference figures 1-3, discloses an electronic television program guide (EPG) data naming system and method and further disclose a method and a system for implementing an electronic program guide (EPG), the method/system comprising:

Receiving (34) programming information (EPG data) from a source (fig.1, col.4, lines 27-46);

Storing the received programming information comprising information about individual programs, in its entirety, in data storage area; responsive to the received programming information being stored in its entirety, continuously scanning the data storage area, in a cyclical manner, to identify and remove data entries meeting a first predetermined criterion (col.4, line 47-col.5, line 6, lines 57-col.6, line 31, line 55+ and col.7, lines 15+); responsive to storing the received programming information in its entirety, partitioning the data storage area into a plurality of discrete storage area based on a predefined criterion (tile Categorizes a group of labels, col.6, line 55-col.7, line 46 and col.8, line 40-col.9, line 40), note that the IRD-36 receives and stores the EPG data in its entirety (col.6, lines 55-col.7, line 46) and upon storing the received EPG data in its entirety, partitions the storage to a plurality of discrete storage areas and categorizes

a group of labels (a-f) and stores these labels accordingly in the discrete storage areas (figs.3+ and col.8, line 40-col.9, line 40).

As to claim 3, Arsenault further discloses where the EPG data further comprises tokens, including compressed forms of the information about individual programs used to describe the individual programs and a meaning associated with the tokens is stored in a token dictionary and is modifiable (col.6, line 55-col.7, line 46 and col.8, line 40-col.9, line 40).

As to claim 4, Arsenault further discloses where the predefined criterion comprises temporal relationship between the individual programs in the received program information and comprises a numeric relationship between token numbers associated with the tokens (col.6, line 55-col.7, line 46 and col.8, line 40-col.9, line 40).

As to claim 5, Arsenault further discloses where the predefined criterion comprises a numeric relationship between token numbers associated with the tokens (col.6, line 55-col.7, line 46 and col.8, line 40-col.9, line 40).

As to claim 6, Arsenault further discloses where a size of each data storage area is selected to store program information about programs to be broadcast over a define time interval (col.6, line 55-col.7, line 46 and col.8, line 40-col.9, line 40).

As to claims 7 and 8, Arsenault further discloses referencing the information stored in each discrete storage area using a storage area identifier to identify the information within a storage area and an index of storage area identifiers and where the storage area identifiers form a pointer chain (col.6, line 55-col.7, line 46 and col.8, line 40-col.9, line 40).

As to claims 12-13, Arsenault further discloses determining that specific programming information is required, which comprises checking if a user has input a request for specific programming information, checking whether the programming information stored in the discrete storage areas is incomplete for want of specific programming information and requesting the specific programming information from the source (col.6, line 55-col.7, line 46 and col.8, line 40-col.9, line 40).

As to claims 29-30, the claimed "A system for implementing an electronic program guide..." is composed of the same structural elements that were discussed with respect to the rejection of claim 1.

Claim 31 is met as previously discussed with respect to claim 3.

Claim 32 is met as previously discussed with respect to claim 4.

Claim 33 is met as previously discussed with respect to claim 5.

Claim 34 is met as previously discussed with respect to claim 6.

Claims 35-36 are met as previously discussed with respect to claims 7 and 8.

Claims 40-42 are met as previously discussed with respect to claims 12-14.

Claims 67 and 68 are met as previously discussed with respect to claim 3.

### ***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

Art Unit: 2623

invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 9-11, 37-39, 69 and 70 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Arsenault et al (6,728,966)** as applied to claims 1, 7, 29 and 36 above and further in view of **Emma et al (5,155,831)**.

As to claims 9-11 and 37-39, Arsenault further discloses memory management, but fails to explicitly teach where the discrete storage area is reference by an empty identifier to indicate that the discrete storage area is available for storing new information.

However, note the **Emma** reference figures 1-3, discloses data processing system with fast queue store interposed between store-through caches and main memory and further discloses making room for new entries by reference an empty identifier to oldest or least recently data to be removed (abstract, col.3, line 60-col.4, line 17, col.5, line 23-col.6, line 31 and col.7, lines 18-38).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teaching of Emma into the system of Ellis in order to update the memory in a fast and efficient manner.

As to claims 69 and 70, Arsenault further discloses memory management, but silent as to where the first predetermined criterion is the data is expired.

However, note the **Emma** reference figures 1-3, discloses data processing system with fast queue store interposed between store-through caches and main memory and further discloses making room for new entries by overriding the oldest or



least recently data to be removed (abstract, col.3, line 60-col.4, line 17, col.5, line 23-col.6, line 31 and col.7, lines 18-38).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teaching of Emma into the system of Arsenault to provide an expiration time for the received data in order to free up memory space for new entries and update the memory in a fast and efficient manner.

### ***Conclusion***

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Annan Q. Shang** whose telephone number is **571-272-7355**. The examiner can normally be reached on **700am-400pm**.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Christopher S. Kelley** can be reached on **571-272-7331**. The fax phone number for the organization where this application or proceeding is assigned is **571-273-8300**.

Art Unit: 2623

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the **Electronic Business Center (EBC) at 866-217-9197 (toll-free)**. If you would like assistance from a **USPTO Customer Service Representative** or access to the automated information system, **call 800-786-9199 (IN USA OR CANADA) or 571-272-1000**.

/Annan Q Shang/

Primary Examiner, Art Unit 2623

**Annan Q. Shang**